

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2013/077507 A1 (YU YI [US] ET AL) 28 March 2013 (2013-03-28)	1,2,4	INV. H04J11/00
Y	* paragraph [0006] * * paragraph [0076] - paragraph [0078] * * paragraph [0099] - paragraph [0119] * * paragraph [0112] - paragraph [0114] * * paragraph [0144] - paragraph [0155] *	3	H04L5/00 H04W48/16
A	----- "3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Small cell enhancements for E-UTRA and E-UTRAN - Physical layer aspects (Release 12)", 3GPP STANDARD; 3GPP TR 36.872, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, vol. RAN WG1, no. V1.0.0, 30 August 2013 (2013-08-30), pages 1-79, XP050712183, [retrieved on 2013-08-30] * sec.7.2.2.3 and sec.7.2.2.4; page 44 - page 45 * ----- -/--	1-4	TECHNICAL FIELDS SEARCHED (IPC) H04W H04L H04J
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 1 November 2017	Examiner Tanbourgi, Ralph
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

6

EPO FORM 1503 03 82 (P04C04)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	<p>NTT DOCOMO: "Small Cell Discovery for Efficient Small Cell On/Off Operation", 3GPP DRAFT; R1-133457, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE</p> <p>, vol. RAN WG1, no. Barcelona, Spain; 20130819 - 20130823 10 August 2013 (2013-08-10), XP050716565, Retrieved from the Internet: URL:http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_74/Docs/ [retrieved on 2013-08-10]</p>	3	
A	* Sec.3.2; page 4 *	1,2,4	
X	----- WO 2013/135944 A1 (NOKIA CORP [FI]) 19 September 2013 (2013-09-19)	5,7-12	
A	* page 4, paragraph 2 * * page 5, paragraph 4 - page 6, paragraph 1 * * figures 1,5 * * page 6, paragraph 2 - paragraph 3 * * page 5, paragraph 1 *	6	
X	----- US 2008/095108 A1 (MALLADI DURGA P [US] ET AL) 24 April 2008 (2008-04-24) * paragraph [0088] * * paragraph [0035] * * paragraph [0008] * * figures 1,7 *	5-12	TECHNICAL FIELDS SEARCHED (IPC)
----- -/--			
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 1 November 2017	Examiner Tanbourgi, Ralph
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>	

6

EPO FORM 1503 03 82 (P04C04)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	<p>ZTE: "Further considerations on enhanced transition procedures of small cell on/off scheme", 3GPP DRAFT; R1-135350 FURTHER CONSIDERATIONS ON ENHANCED TRANSITION PROCEDURES OF SMALL CELL ON/OFF SCHEME, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES</p> <p>, vol. RAN WG1, no. San Francisco, USA; 20131111 - 20131115 13 November 2013 (2013-11-13), XP050735033, Retrieved from the Internet: URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN/RAN1/Docs/ [retrieved on 2013-11-13] * the whole document *</p> <p style="text-align: center;">-----</p>	5-12	
			TECHNICAL FIELDS SEARCHED (IPC)
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 1 November 2017	Examiner Tanbourgi, Ralph
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p>		<p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>	

6

EPO FORM 1503 03 82 (P04C04)

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims:



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 15 73 7135

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-4

Method for performing measurements of discovery signals and
for receiving discovery signal information

2. claims: 5-12

Method for receiving a discovery signal in a hopping fashion
in a small-cell scenario

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 73 7135

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-11-2017

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2013077507	A1	28-03-2013	CA 2848330 A1	04-04-2013
			CA 2848413 A1	04-04-2013
			CN 103797851 A	14-05-2014
			CN 103843288 A	04-06-2014
			EP 2732662 A1	21-05-2014
			EP 2761821 A1	06-08-2014
			KR 20140066740 A	02-06-2014
			KR 20140066754 A	02-06-2014
			US 2013077507 A1	28-03-2013
			US 2013079019 A1	28-03-2013
			US 2013079048 A1	28-03-2013
			US 2013079049 A1	28-03-2013
			WO 2013049057 A1	04-04-2013
			WO 2013049199 A1	04-04-2013

WO 2013135944	A1	19-09-2013	EP 2826323 A1	21-01-2015
			US 2015023197 A1	22-01-2015
			WO 2013135944 A1	19-09-2013

US 2008095108	A1	24-04-2008	BR PI0716730 A2	03-09-2013
			CA 2661201 A1	20-03-2008
			CA 2798522 A1	20-03-2008
			CA 2798524 A1	20-03-2008
			CN 101548516 A	30-09-2009
			CN 103607753 A	26-02-2014
			CN 103607754 A	26-02-2014
			EP 2080336 A2	22-07-2009
			EP 2472758 A1	04-07-2012
			EP 2482511 A1	01-08-2012
			JP 4902743 B2	21-03-2012
			JP 2010504046 A	04-02-2010
			KR 20090077915 A	16-07-2009
			KR 20110039398 A	15-04-2011
			KR 20110049900 A	12-05-2011
			TW 200835365 A	16-08-2008
US 2008095108 A1	24-04-2008			
US 2014133478 A1	15-05-2014			
WO 2008033985 A2	20-03-2008			
